BREAKING ADVANCES

1775 Highlights from Recent Cancer Literature

REVIEWS

1777 Nerve–Cancer Cell Cross-talk: A Novel Promoter of Tumor Progression
Phillip Jobling, Jay Pandavala, Sonia M.R. Oliveira, Séverine Roselli, Marjorie M. Walker, and Hubert Hondermarck

Précis: An E3 ligase that targets both EGFR and β-catenin for destruction may offer a rational new theranostic target in the most deadly form of adult brain cancer.

1782 Amino Acid Transporters in Cancer and Their Relevance to “Glutamine Addiction”: Novel Targets for the Design of a New Class of Anticancer Drugs
Yangzom D. Bhutia, Ellappan Babu, Sabarish Ramachandran, and Vadivel Ganapathy

INTEGRATED SYSTEMS AND TECHNOLOGIES

1789 Molecular Portraits of Epithelial, Mesenchymal, and Hybrid States in Lung Adenocarcinoma and Their Relevance to Survival

Précis: An integrative approach combining genomics and proteomics with functional profiling revealed an association between cytoskeletal and actin-binding proteins, a mesenchymal or hybrid EMT phenotype, and invasive properties of lung adenocarcinomas that impact overall survival in patients.

MOLECULAR AND CELLULAR PATHOBIOLOGY

1801 Lung Tumor Suppressor GPRC5A Binds EGFR and Restrains Its Effector Signaling
Shuangshuang Zhong, Huijing Yin, Yueying Liao, Feng Yao, Qi Li, Jie Zhang, Huike Jiao, Yongxi Zhao, Dongliang Xu, Shuli Liu, Hongxing Song, Yong Gao, Jinfeng Li, Lena Ma, Zhi Pang, Ruixi Yang, Chengyi Ding, Baoxi Sun, Xiaofeng Lin, Xiaofeng Ye, Wenzheng Guo, Baohui Han, Binhu P. Zhou, Y. Eugene Chin, and Jiong Deng

Précis: These results reveal how common loss of expression of a tumor suppressive G-protein coupled receptor during lung tumorigenesis promotes malignant development.
PREVENTION AND EPIDEMIOLOGY

1859 miR-21 Inhibition Reduces Liver Fibrosis and Prevents Tumor Development by Inducing Apoptosis of CD24+ Progenitor Cells
Jing Zhang, Jingjing Jiao, Silvia Cermelli, Kyle Muir, Kwang Hwa Jung, Ruohai Zou, Asif Rashid, Mihai Gagea, Sonya Zabludoff, Raghu Kalluri, and Laura Beretta
Précis: These findings highlight the function of a widely studied oncomiR in the survival of CD24+ tumor-initiating cells and reduced liver fibrosis.

THERAPEUTICS, TARGETS, AND CHEMICAL BIOLOGY

1868 Histone Deacetylase Inhibitors Repress Tumoral Expression of the Proinvasive Factor RUNX2
Valentina Sancisi, Greta Gandolfi, Davide Carlo Ambrosetti, and Alessia Ciarrocchi
Précis: These findings offer evidence that the cytotoxic activity of HDAC inhibitors against cancer cells relies not only on reactivating silenced tumor suppressor functions, as widely thought, but also on silencing oncogenes that drive cell survival and malignant progression.

TUMOR AND STEM CELL BIOLOGY

1883 RSPO2 Enhances Canonical Wnt Signaling to Confer Stemness-Associated Traits to Susceptible Pancreatic Cancer Cells
Matthias Ilmer, Alejandro Recio Boiles, Ivonne Regel, Kenji Yokoi, Christoph W. Michalski, Ignacio I. Wistuba, Jaime Rodriguez, Eckhard Alt, and Jody Vykoukal
Précis: These results show how blocking a stemness-promoting pathway in conjunction with established chemotherapy could help disrupt dynamic cancer stem-like cell processes and present novel therapeutic targets and strategies.

CORRECTION

1922 Correction: PTEN Loss Contributes to Erlotinib Resistance in EGFR-Mutant Lung Cancer by Activation of Akt and EGFR

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ABOUT THE COVER

GPRC5A was repressed, while EGFR was dysregulated, in inflammatory lung tissues (n = 10) in comparison with those in normal lung tissues (n = 10). The inverse correlation between EGFR and GPRC5A was complete, without one exception. IHC staining for GPRC5A in human inflammatory lung tissue is shown in the representative image. For details, see article by Zhong and colleagues on page 1801.